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RAJEEV RAI

Professional Profile

SENIOR MANAGEMENT PROFESSIONAL Project Management | Design Management | Structural Design

SUMMARY

- ↳ **25 years' of experience** with progressively increasing supervisory & managerial responsibilities in **Structural Design, Design Management, Project Management, Business Development**;
- ↳ Developed **holistic perspective** about the field of civil construction through diverse experiences of working as structural design engineer, design manager, engineering consultant, project management consultant while representing consulting and construction companies;
- ↳ Successfully delivered projects by efficient **project management** of several building projects (area up to 60000 sqm, G+15 floors) with 'concept to finish' responsibilities which included scope management, project planning, engineering designs, estimation & costing project cost & time control, estimation, tendering of works, resource management, stakeholder management, statutory bodies' approval, contract and project administration, project communication, monthly cash flow, quality management, risk management & mitigation;
- ↳ Independently handled **design management** by efficiently leading multidisciplinary teams, seamlessly coordinating with associate consultants and effectively managing stakeholders like clients, contractors, statutory bodies simultaneously;
- ↳ Competently performed **structural designs** of challenging RCC and steel buildings with sound understanding of structural engineering & its codes (Indian, American & Euro Codes) through proficient utilization of engineering software packages;
- ↳ Led company in **construction** of RCC buildings (residential towers & malls towers, up to B+G+13 floors, total cumulative built up area up to 125000 sqm)
- ↳ Excellent **communicator** who, in addition to his good command over spoken and written language, efficiently uses various software packages to communicate with internal & external stakeholders as well as design & construction teams.

SKILLSET

- ↳ **Project Management**
 - Stakeholder management
 - Cost & time management
 - Risk management & mitigation
 - Project planning
 - Resource management
 - Project monitoring & control
 - Project communication
 - Quality management
 - Construction management
- ↳ **Design Management**
 - Stakeholders management
 - Design supervision
 - Cost & time control
 - Scope Management
 - Design Coordination
 - Quality management
- ↳ **General Management**
 - Business development
 - Office administration
 - Corporate communication
- ↳ **Structural Engineering**
 - Stakeholder Management
 - Hands on in drawing preparation
 - Design Coordination
 - Structural analysis & design
 - Proficient in software packages
 - Structural works' supervision

SOFTWARE PROFICIENCY

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| ↳ ETABS | ↳ STAADPro | ↳ MS Project | ↳ MS Excel |
| ↳ SAFE | ↳ AutoCAD | ↳ MS Powerpoint | ↳ Autodesk Revit (Basic) |
| ↳ SAP2000 | ↳ Adobe In Design | ↳ MS Word | ↳ SketchUp (Basic) |

CODES USED

- ↳ Concrete Design ACI 318, Eurocode 2, IS 456-2002
- ↳ Steel Design AISC 360-10, AISC Design Guides, Eurocode 3, IS 800
- ↳ Earthquake Design ASCE 07, Eurocode 8, IS 1893-2002, IS 13920, UBC 1997
- ↳ Loads on Structures IBC 2012, UBC 97, ACSE 07, Eurocode 1, IS 875
- ↳ Railway Bridges IRS Codes (Bridge Rules, Bridge Sub-structure & Foundations, Concrete Bridge Code, Fatigue Provisions, Steel Bridge Code, RDSO Guidelines for Seismic Design of Railway Bridges)
- ↳ Highway Bridges IRC 6-2010, IRC 112-2011, IRC 78-2000, IRC 83 (Part 1 to 3)

PROFESSIONAL EXPERIENCE

Senior Structural Engineer Arkiplan Consulting Architects & Engineers January, 2016 to May 2017

- ↳ Carried out structural design & supervised structural engineering team in structural design and drawings;
- ↳ Coordinated with architects & MEP streams design activities;
- ↳ Interacted with Dubai Municipality for design/drawings approval;
- ↳ Coordinated with clients' & contractors' engineer in relation design & construction issues.

Senior Principal Engineer Dodsai E&C P. Ltd. November, 2014 to January, 2016

- ↳ Supervised structural design for various industrial structures and residential properties in Dubai and Abu Dhabi;
- ↳ Performed as 'Project Engineering Manager' & managed pre-bid engineering team for projects of Tacamol Aromatics Project and Etihad Rail Phase-II;
- ↳ Acted as 'Departmental Quality Representative' for Civil-Structural-Architectural Department.

Principal Consultant STUP Consultants P. Ltd. January, 2013 to April, 2014

- ↳ Handled office administration and managed client relationships as 'Office Head';
- ↳ Managed business development as 'Business Head' (with profit-loss responsibility) and brought the office to profitability;
- ↳ Led technical teams in project management of buildings & flyovers;
- ↳ Handled structural design of sports infrastructure buildings.

Director/Chief Consultant Privitech Consulting Engineers Pvt. Ltd. January, 2005 to December, 2012

- ↳ Spearheaded the company's overall operation including business development;
- ↳ Led engineering teams design (architectural & structural design) & coordination with consulting associates & contractors;
- ↳ Managed project management team (concept, project reports, engineering designs, project planning, cost & time control, project execution, monitoring & control management, stakeholder management, project documentation & communication);
- ↳ Handled structural design of RCC & steel buildings;

Director (Projects) Privitech Projects Pvt. Ltd. March, 2005 to December, 2008

- ↳ Spearheaded the company's overall operation including construction management & business development;
- ↳ Lead company in construction of three projects comprising of RCC buildings (residential towers & malls towers, up to B+G+13 floors, total cumulative built up area up to 125000 sqm)

Senior Structural Consultant Highrise Structures May, 1993 to January 2005

- ↳ Managed structural design of numerous RCC & steel building structures and a 80 m span arch bridge too;
- ↳ Prepared estimates & BOQ for costing & tendering purposes;
- ↳ Represented the company at external meetings and conducted consultant's site supervision;
- ↳ Conducted condition surveys and devised rehabilitation scheme for building structures in distress.

Senior Scientific Officer-II Indian Institute of Technology, Delhi July 1991 to May, 1993

- ↳ Established of research laboratory for 'Design Wind Speeds in India' & designed steel tower, supervised its fabrication & erection atop building roof, checked existing building for structural safety for additional tower loads.

ACCOMPLISHMENTS

- ↳ 'Unlimited Height License' for structural design of buildings from Dubai Municipality;
- ↳ Successfully managed real estate building projects with all inclusive comprehensive responsibilities from concept to finish;
- ↳ Introduced many out of the box ideas to reduce project cost and add value to projects;
- ↳ Simultaneously managed responsibilities as diverse as business development, company administration, engineering designs and project management.

MEMBERSHIPS

- ↳ Fellow, Institution of Engineers (INDIA) ↳ Member, Society of Engineers, UAE
- ↳ Fellow, Indian Association of Structural Engineers ↳ Member, Indian Society of Earthquake Technology
- ↳ ↳ Member, Indian Society of Wind Engineering

EDUCATION QUALIFICATION

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| ↳ MBA | National Institute of Business Management, India | 2016 | Grade A |
| ↳ M. Tech. (Structural Engineering) | Indian Institute of Technology, Delhi, India | 1991 | 8.5/10 |
| ↳ B.E. (Civil Engineering) | Indian Institute of Technology, Roorkee, India | 1989 | 84% |

PERSONAL ATTRIBUTES

- ↳ Team oriented ↳ Confident ↳ Reliable ↳ Innovative

PERSONAL DETAILS

Date of Birth: 25th Aug 1967 | Nationality: Indian | Marital Status: Married | Linguistic Abilities: English, Hindi

A GLIMPSE OF PROJECTS HANDLED

AS DIRECTOR (TECHNICAL) AT QUALITY AUSTRIA CENTRAL ASIA PTV. LTD.

Structural Design & Third Party Quality Audits

- ↳ Design check of more than 2000 tower & 1000 buildings
- ↳ Strengthening to RCC foundations & buildings
- ↳ Strengthening of steel towers
- ↳ Design of Steel structures for IOCL
- ↳ Third Party Quality Audits of towers as well as buildings & bridges in govt. sector

AS SR. STRUCTURAL ENGINEER AT ARKIPLAN CONSULTING ARCHITECTS & ENGINEERS PTV. LTD.

STRUCTURAL DESIGN

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| <p>OMANIYAT II, DUBAI</p> <ul style="list-style-type: none"> ↳ Description: 3B+G+24 floor tower, area 42000 Sqm ↳ Responsibility: Structural concept & structural members' sizes <p>MOHAMED SAIF MOHAMED BIN SHAFAR-I, DUBAI</p> <ul style="list-style-type: none"> ↳ Description: G+15 floors residential tower, area 38000 Sqm ↳ Responsibility: Details structural design & drawings | <p>AL GHURAIR INVESTMENT – I, DUBAI</p> <ul style="list-style-type: none"> ↳ Description: G+2 floor residential building, area 8000 Sqm ↳ Responsibility: Details structural design & drawings <p>AL GHURAIR INVESTMENT – II, DUBAI</p> <ul style="list-style-type: none"> ↳ Description: G+2 floors residential building area 9000 Sqm ↳ Responsibility: Details structural design & drawings |
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AS SR. PRINCIPAL ENGINEER AT DODSAL E&C PTE. LTD.

PRE-BID ENGINEERING

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| <p>TACAMOL AROMATIC PLANT</p> <ul style="list-style-type: none"> ↳ Scope of Work: Comprehensive quantity estimation and preparation of BOQ for six buildings including electric sub-stations and instrument shelters of the project ↳ Responsibility: Works as 'Project Engineering Manager' for Dodsals' scope of responsibility <p>CHAIRMAN'S PROPERTIES IN DUBAI</p> <ul style="list-style-type: none"> ↳ Scope: Modification and expansion of multiple Villas ↳ Responsibility: Modifications in existing structure and in addition to structural designs of new expansions <p>CHAIRMAN'S PROPERTIES IN ABU DHABI</p> <ul style="list-style-type: none"> ↳ Scope: Modification and expansion of multiple villas | <p>ETIHAD RAIL – STAGE 2 – PACKAGES A, B, C</p> <ul style="list-style-type: none"> ↳ Scope: Quantity estimation for Dodsals' scope of responsibility in the JV which comprised of all buildings and other infrastructure at railway stations ↳ Responsibility: Work as 'Project Engineering Manager' for Dodsals' scope of works |
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STRUCTURAL DESIGN

- ↳ Responsibility: Modifications in existing structure in addition to structural designs of new expansions

MISC. STRUCTURES IN ONGOING PROJECTS

- ↳ Structural design structures like machine foundations, tanks, overhead tanks, large span steel portal frames etc. were designed as per the requirements of various projects.

AS PRINCIPAL CONSULTANT AT STUP CONSULTANTS

PROJECT MANAGEMENT CUM PROOF CHECKING

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| <p>KANDIKAL X-ROADS ROB, HYDERABAD</p> <ul style="list-style-type: none"> ↳ Client: Greater Hyderabad Municipal Corporation ↳ Description: 33 span ROB excluding 2-railway spans at Kandikal X-Roads, Hyderabad ↳ Responsibility: Management of proof checking of structural design and PMC work through design & PMC Team <p>TOLI CHOWKI FLYOVER, HYDERABAD</p> <ul style="list-style-type: none"> ↳ Client: Greater Hyderabad Municipal Corporation | <ul style="list-style-type: none"> ↳ Description: Two parallel flyovers, having 17 spans with 3-lane each at Toli Chowki, Hyderabad ↳ Responsibility: Management of proof checking of structural design and PMC work through design & PMC Team <p>2500 SEATER STATE-OF-THE-ARTS AUDITORIUM</p> <ul style="list-style-type: none"> ↳ Client: BITS-Pilani, Hyderabad Campus ↳ Description: Auditorium building at BITS-Pilani, Hyderabad ↳ Responsibility: 'Team Leader' of the PMC Team |
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STRUCTURAL DESIGN OF BUILDINGS

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| <p>SPORTS INFRASTRUCTURE BUILDINGS, KERALA</p> <ul style="list-style-type: none"> ↳ Client: IL&FS, Mumbai ↳ Description: The building (area 15000 sqm.) consisted of large span convention hall (36.0m x 39.0m) and multi-sport | <ul style="list-style-type: none"> ↳ hall (40.0mx60.0m) in addition to 8-floor club house to be constructed in RCC and Steel both ↳ Responsibility: Structural concept, detail design of M.S. hall (vibration analysis for roof having Lawn Tennis courts) |
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AS CHIEF CONSULTANT AT PRIVITECH CONSULTING ENGINEERS P. LTD.

PROJECT MANAGEMENT AND COMPREHENSIVE ENGINEERING DESIGN

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| <p>HRC PROFESSIONALS' HUB, (NCR DELHI, INDIA)</p> <ul style="list-style-type: none"> ↳ Client: HRC Engineers Estate P. Ltd. ↳ Description: B+S+12 floor residential building complex (310 units, 4 towers, total built up area of 54200 Sqm) | <p>PARK SIDE VILAS AT AGRA</p> <ul style="list-style-type: none"> ↳ Client: HRC Horizons ↳ Description: 79 villas, 81 independent floor units, 125 dwelling units (6 floors) with approx. built area of 40000 Sqm |
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DETAIL ENGINEERING DESIGN (ARCHITECTURE, STRUCTURE & MEP)

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| <p>MODEL SCHOOLS (HARYANA GOVT.)</p> <ul style="list-style-type: none"> ↳ Client: Haryana School Shiksha Pariyojana Parishad ↳ Description: 17 Nos. of 'Model Schools' (total area 55000 Sqm) ↳ Special features: Earthquake resistant features for brick masonry structure in addition energy efficient features <p>TAJ HEIGHTS AT GHAZIABAD (NCR, DELHI)</p> <ul style="list-style-type: none"> ↳ Client: Nyay Vihar Sehkari Awas Samiti Ltd., | <ul style="list-style-type: none"> ↳ Description of Building: B+G+13 floor residential building complex (450 units, 4 towers, built area 60000 Sqm) ↳ Status of the Project: Design/drawings submitted and project approved by development authority <p>GAUTAM BUDDHA BOYS INTER COLLEGE AT G. NOIDA</p> <ul style="list-style-type: none"> ↳ Client: Greater NOIDA Industrial Development Authority ↳ Description of Building: Fully residential school building to cater to 1200 students (B+3 floors, built up area 11000 Sqm) <p>SAVITRI BIE PHOOLE GIRLS INTER COLLEGE</p> |
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- ↳ Client: Greater NOIDA Industrial Development Authority
- ↳ Description of Building: Fully residential school building to cater 1200 students (B+3 floors, Built up area 11000 Sqm)

CAPTAIN PLAZA AT HALDWANI

- ↳ Client: Captain Mohit Joshi

- ↳ Description: Commercial cum residential complex

LEELAWATI HOSPITAL AT HARIDWAR

- ↳ Client: Owners, Leelwati Hospital
- ↳ Description: 4 floor 50 bedded hospital building

PROOF CHECKING OF DESIGN - RAILWAY STEEL BRIDGE

RAILWAY BRIDGE, RIVER BHAGIRATHI, KOLKATA

- ↳ Client: Indian Institute of Technology, Roorkee

- ↳ Scope: Proof checking of structural analysis, design & drawings of 595.5 m long railway steel truss bridge

STRUCTURAL DESIGN - BUILDINGS

LECTURE THEATRE & LAB COMPLEX, IIT DELHI

- ↳ Client: Indian Institute Technology, Delhi
- ↳ Description: B+6 floor building having 22 nos. large-span, multi-storey auditoriums/lecture theatres/laboratory halls (complex & composite structural arrangement in RCC & steel, approx. 45000 sqm built up area)

PROFESSORS' APARTMENTS, IIT DELHI

- ↳ Client: CPWD, IIT Project Division-I
- ↳ Description: B+8 floor apartment building, 4 towers , 96 nos. of dwelling units, 42000 sqm built up area

CENTRAL LIBRARY BUILDING AT ISM UNIVERSITY

Client: ISMU Project Division, CPWD, Dhanbad, Jharkhand

- ↳ Description: 9 floor library building (built up area 25000 Sqm)

269 NOS. MULTISTORY RESIDENTIAL QUARTERS

- ↳ Client: CPWD, Ranchi
- ↳ Description: Different types of 269 nos. of dwelling units

15 NOS. MARRIED FLATS AT RANCHI

- ↳ Client: CPWD, Ranch
- ↳ Description: Married hostel for CRPF officers

210 BEDDED HOSTEL AT RANCHI

- ↳ Client: CPWD, Ranchi
- ↳ Description: 210 bedded, G+3 floor hostel building

GUEST HOUSE BUILDING, CRPF, RANCHI

- ↳ Client: CPWD, Ranchi
- ↳ Description: 23 room guest house for trainees at, Ranchi

MSME OFFICE BUILDING, KOKAR, RANCHI

- ↳ Client: CPWD, Ranchi
- ↳ Description: G+3 floor office building

CENTRAL WAQF COUNCIL BUILDING, NEW DELHI

- ↳ Client: Central Public Work Department, Delhi
- ↳ Description: Multi-storey office building

NIFFT MULTI PURPOSE BUILDING. RANCHI

- ↳ Client: Central Public Work Department, Ranchi
- ↳ Description: Multi-storey, multi-purpose building

DESIGN FOR SOS' DORMITORY, DHURWA

- ↳ Client: Central Public Work Department, Ranchi
- ↳ Description: Multi-storey barrack for CRPF
- ↳ Specific Responsibility: Carry out structural analysis/design and get structural drawings prepared

60 WOMEN BARRACK, 106 BN. RAF, JAMSHEDPUR

- ↳ Client: Central Public Work Department, Ranchi
- ↳ Description: Multi-storey barracks for women
- ↳ 3 Nos., 240 Men Barrack at Khunti, Jharkhand
- ↳ Client: Central Public Work Department, Ranchi
- ↳ Description: 3 nos., Multi-storey, men's barracks

STUDENT ACTIVITY CENTER AT ISM UNIVERSITY

- ↳ Client: Central Public Work Department, ISMU, Dhanbad
- ↳ Description: Multi-storey 'Student Activity Centre' with swimming pool

AS SR. STRUCTURAL CONSULTANT AT HIGHRISE STRUCTURES

STRUCTURAL DESIGN - BUILDING

PATRAKAR VIHAR AT INDIRAPURAM, GHAZIABAD

- ↳ Client: Patrakar Kamgar Sehkari Awas Samiti
- ↳ Description: Multi-storey residential buildings (176 Flats)

SUDARSHANACHARYA C.G.H.S. IN FARIDABAD

- ↳ Client: Sudarshanacharya C.G.H.S. , Faridabad, Haryana
- ↳ Description: G+8 floor residential tower

PRABHU C.G.H.S. IN FARIDABAD (HARYANA)

- ↳ Client: Prabhu C.G.H.S. , Faridabad, Haryana
- ↳ Description: G+9 floor residential tower

NAGAR HOSPITAL, GHAZIABAD

- ↳ Client: Architect (Holistic Consultancy Consortium, Delhi)
- ↳ Description: Modification & expansion of B+4 storey hospital building

DUPLEX HOUSING COMPLEX

- ↳ Client: Greater Noida Industrial Development Authority

- ↳ Description: Duplex housing complex at, Greater Noida

5 NOS. - CONVENIENT SHOPPING CENTERS, GZB.

- ↳ Client: U.P. Avas Evam Vikas Parishad
- ↳ Description: Multi-location, different designs

TULSI MANAS MANDIR, HARIDWAR

- ↳ Client: Management Committee, Tulsi Manas Mandir
- ↳ Special Feature: Central hall (20m x20m) prayer hall with assembly of devotee at the roof with multiple domes

AYURVEDIC AUSHDHALAYA BUILDING, HARIDWAR

- ↳ Client: Architect
- ↳ Description: Construction of B+4 storey hospital building at Rishikesh

MAYA EXPORT CORPORATION AT GREATER NOIDA

- ↳ Client: Architect
- ↳ Description: Construction of B+3 storey garment factory at Greater Noida, G.B. Nagar

STRUCTURAL DESIGN – CAST-IN-SITU RCC DESIGN

CAST-IN-SITU ARCH BRIDGE AT HIMACHAL PRADESH

- ↳ Client: Arch Consultancy Services, Delhi

- ↳ Scope: Structural analysis/design of RCC Arch Bridge

STRUCTURAL DESIGN - TREATMENT PLANT

SEWERAGE TREATMENT PLANT, ANUP SHAHAR

- ↳ Client: U.P. Jal Nigam
- ↳ Description: Construction of various tanks for treatment plant

- ↳ Responsibility: Carry out structural analysis/design and get structural drawings prepared

REPAIR / REHABILITATION / RETROFITTING OF BUILDINGS

REHABILITATION OF G+7 FLOOR TOWERS, DELHI

- ↳ Description: Buildings had developed extensive cracks in exterior columns & beams due to corrosion in reinforcing bars
- ↳ Scope: 1. Condition Survey of all towers and preparation of report suggesting remedial measures.

REHABILITATION OF G+4 FLOOR BUILDING

- ↳ Client: Holistic Consultancy Consortium, Delhi
- ↳ Description: This multi-storey building was tilting immediately after construction.
- ↳ Responsibility: Device foundation/ground strengthening scheme along-with execution methodology.

